CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.14/PP/CEMENT/2014-15

Date: 11.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. P. Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.
REFERENCE	:	BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

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The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	465 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Note:

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No.: CTCE/BBMP/W.No.14/PP/SAND/2014-15 : 11.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

ient : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

gency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of Work : Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014

Date of Testing : 11.07.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	125	6.25	6.25	93.8	90-100
2.36	212	10.60	16.85	83.2	75-100
1.18	515	25.75	42.60	57.4	55-90
600 Micron	405	20.25	62.85	37.2	35-59
300 Micron	481	24.05	86.90	13.1	8-30
150 Micron	213	10.65	97.55	2.4	0-10

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..: CTCE/BBMP/W.No.14/PP/AGG/2014-15 : 11.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

nt : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

ency : **Mr. P. Prakash,** Contractor, Bangalore.

me of Work : Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.

eference : BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014

ate of Testing : 11.07.2014

Material : 40mm Aggregates Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	985	3.79	3.79	96.21	95-100
20	15892	61.12	64.91	35.09	30-70
10	6053	23.28	88.19	11.81	10-35
4.75	2594	9.98	98.17	1.83	0-5

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No.: CTCE/BBMP/W.No.14/PP/CUBE/2014-15

28.08.2014

TEST REPORT ON CONCRETE CUBES

ent : **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.

gency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of the work : Improvements to Drain, Footpath 1st, 2nd, 3rd, 4th and 5th Cross Brundavana Layout Mallasandra in Bagalagunte in Ward No.14, BBMP, Bangalore.

Reference : BBMP/DZ/AEE/TDSD/PR/789/2014-15 Dated: 05.07.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2014	28.08.2014	8.251	375.8	16.70
2	31.07.2014	28.08.2014	8.326	389.6	17.32
3	31.07.2014	28.08.2014	8.189	362.7	16.12

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No.: CTCE/BBMP/W.No.14/PP/CUBE/2014-15

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2014	28.08.2014	8.243	368.4	16.37
2	31.07.2014	28.08.2014	8.351	383.6	17.05
3	31.07.2014	28.08.2014	8.415	395.4	17.57

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